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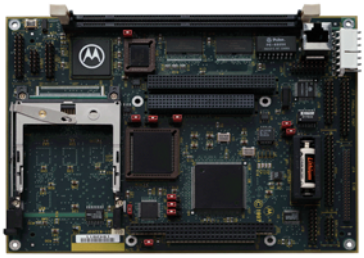
Find the *Emerson / Motorola MBX860-001C* at our website: *Click HERE*

Datasheet

MBX860

EBX Form Factor Embedded Controller

MOTOROLA
intelligence everywhere™



EBX form factor board featuring the MPC860 PowerQUICC processor

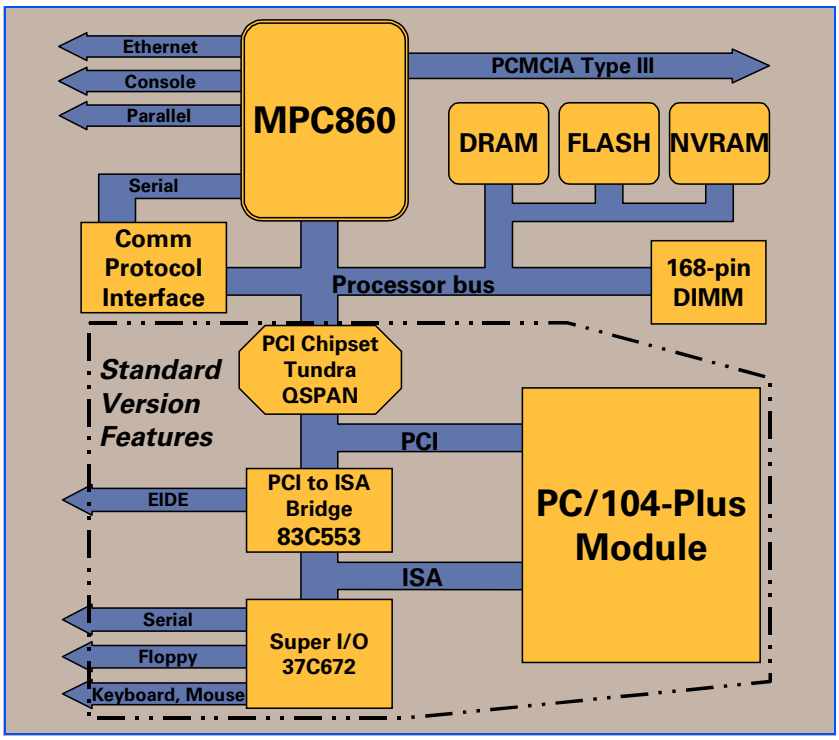
MBX860 is a small, standard EBX form factor board for embedded applications. Featuring the MPC860 PowerQUICC processor, with integrated communications and RISC processing, MBX860 delivers the real-time performance that today's embedded applications demand. Open interfaces, including PC/104-Plus and PCMCIA, make adding the right hardware for the job easy. And with support from industry-leading, real-time development tools (such as Tornado or VxWorks from Wind River Systems, OS-9 from Microware Systems, pSOSystem from Integrated Systems, LynxOS from LynuxWorks Inc., SingleStep from Software Development Systems, and CodeWarrior from Metrowerks) getting applications up and running is easier than ever.

Entry-level Version

- MPC860 PowerQUICC processor with integrated MMU and communications functions
- 4MB on-board DRAM with optional parity
- 2MB Flash memory; 32KB NVRAM with battery backup
- One 168-pin DIMM socket; addresses up to 128MB DRAM using 3.3 V, unbuffered, 60 ns EDO, x64 or x72 DIMM
- RTC, watchdog timer, four 16-bit timers (in processor)
- Serial port, parallel port and one PCMCIA slot (Type I, II, or III)
- 10BaseT Ethernet interface

Standard Version – Additional Features

- Optional DRAM: 16MB on-board with optional parity
- Up to 8MB Flash
- PC/104-Plus interface, with Tundra QSpan and Winbond 83C553
- EIDE port (Winbond 83C553), two additional serial ports



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SPECIFICATIONS

Processor

Microprocessor: MPC860EN
Clock Frequency: 50 MHz
Performance: 52/62 MIPS estimated

Power Requirements (board only)

Values indicate the typical consumption of a standard configuration MBX embedded controller with 16MB on-board RAM.

Total Consumption: 17 watts typical
+5 V ±5%: 2.6 amps typical
+3.3 V ±10%: 1.0 amps typical

Environmental

	Operating	Nonoperating
Temperature:	0° C to +70° C, forced air cooling	–40° C to +85° C
Humidity (NC):	10% to 80%	10% to 90%
Vibration:	2 Gs RMS, 20–2000 Hz random	6 Gs RMS, 20–2000 Hz random

Board Size

Width, Length: 5.75 in. x 8.0 in.
Height: 0.75 in., without installed DIMM or PC/104-Plus modules

Demonstrated MTBF

(based on a sample of eight boards in accelerated stress environment)

Mean: 190,509 hours
95% Confidence: 107,681 hours

Electromagnetic Compatibility (EMC)

Intended for use in systems meeting the following regulations:

U.S.: FCC Part 15, Subpart B, Class A or B
Canada: ICES-003, Class A or B

This product was tested in a representative system to the following standards:

CE Mark per European EMC Directive 89/336/EEC with Amendments; Emissions: EN55022 Class B; Immunity: EN55024

Ordering Information

Part Number	Description
MBX860-000C	Entry-level version, 16MB DRAM, 8MB Flash
MBX860-001C	Standard version, 4MB DRAM, 4MB Flash, auxiliary ports
MBX860-002C	Standard version, 4MB DRAM, 4MB Flash, EIDE, PC/104-Plus, auxiliary ports
MBX860-006C	Standard version, 16MB DRAM, 8MB Flash, EIDE, PC/104-Plus, auxiliary ports
Documentation	
MBXCA/IH1	MBX Series Embedded Controller Version C Installation and Use
Documentation is available for online viewing and ordering at http://www.motorola.com/computer/literature	

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